

LISTING OF THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-67. (Cancelled)

68. (Currently amended) ~~An optical arrangement for a~~ stepped lens spotlight, comprising:

a lamp;

a reflector; and

a stepped lens with a diffusing screen, the diffusing screen being arranged in a first region and the stepped lens is arranged in a second region, wherein the first and second regions occupy concentrically arranged surfaces having different diameters, and

wherein an aperture angle of the light emerging from the optical arrangement stepped spotlight is settable between a smaller aperture angle and a larger aperture angle based upon a change in the shape of the light impinging on the optical arrangement and/or a change in the size of the light illuminating the optical arrangement, and wherein the first and second regions in each case occupy concentrically arranged surfaces having different diameters flood position and a spot position, and wherein, in said flood position, a larger portion of light emitted by said lamp passes through said diffusing screen in comparison to said spot position.

69. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the aperture angle is settable based on a change in the diameter of the light impinging on the optical arrangement without altering the angle of incidence of the light illuminating the optical arrangement.

70. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, further comprising a ratio of surface size of the stepped lens to surface size of the diffusing screen of greater than 2 to 1.

71. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 70, wherein the ratio is greater than 10 to 1.

72. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 70, wherein the ratio is greater than 100 to 1.

73. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the aperture angle of the light emerging from the diffusing screen in a vertical direction is different from the aperture angle in a horizontal direction.

74. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the diffusing screen comprises a plurality of annular surface regions, which scatter light in each case in different directions or to different extents.

75. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein, for a stepped lens spotlight having an elliptic reflector having an ellipticity ε , the ratio of the focal length to the radius $n_{St1} = R_{St1}/F_{St1}$ of the stepped lens is greater than 0.5 times $1/\sqrt{\varepsilon^2-1}$.

76. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 75, wherein the ratio is greater than 0.7 times $1/\sqrt{\varepsilon^2-1}$.

77. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 75, wherein the ratio is greater than 0.9 times $1/\sqrt{\varepsilon^2-1}$.

78. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the diffusing screen is arranged only in a central and/or centric region of the stepped lens.

79. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the diffusing screen is arranged at a light exit area and/or a light entry area.

80. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the light-diffusing element has a region that diffuses to a greater extent centrically and a region that diffuses to a lesser extent marginally.

81. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the material of the stepped lens and/or of the diffusing screen comprises a material selected from the group consisting of glass, glass-ceramic material, plastic, and a hybrid composite made of glass and plastic.

82. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 82, wherein the stepped lens is an aspherical lens or a spherical lens.

83. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the stepped lens has a basic body with an essentially planar surface.

84. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the stepped lens has an optically beam-shapingly effective basic body with a surface having shape selected from the group consisting of an essentially concave spherical shape, an essentially concave aspherical shape, an essentially convex spherical shape, and an essentially convex aspherical shape.

85. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the concentrically arranged surfaces have a circle-arc segment shape or a cone envelope shape.

86. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the concentrically arranged surfaces are shaped such that an approximately planar wave with phase fronts perpendicular to the optical axis is combined at a real focal point or is converted into a spherical wave whose midpoint appears to lie at a virtual focal point.

87. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the stepped lens comprises a material with a first dispersion behavior and a further lens with an opposite refractive power and with a material with a second dispersion behavior so that chromatic aberrations are reduced.

88. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the stepped lens is an embossed plastic lens with an optical path length difference at the respective step of less than about 1000 optical wavelengths.

89. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the stepped lens is formed or arranged on a first side and the diffusing screen is formed or arranged on a side opposite to the first side.

90. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the concentrically arranged surfaces essentially have the same radial extent.

91. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the concentrically arranged surfaces comprises at least two adjacent annular segments having stepped elevations essentially having the same height.

92. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein at least that surface of the optical arrangement which faces the light source comprises thermally prestressed glass.

93. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the stepped lens and/or the diffusing screen are/is formed as a filter selected from the group consisting of a UV filter, an IR filter, a colored bandpass filter, a conversion filter, and any combinations thereof.

94. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the stepped lens and/or the diffusing screen are coated with a mechanical antiscratch layer and/or an antireflection layer.

95. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the stepped lens is a planoconvex converging lens or a biconcave negative lens.

96. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the stepped lens has a negative focal length.

97. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, further comprising an ellipsoidal reflector.

98. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 97, wherein the stepped lens has a virtual focal point that can be superimposed with a focal point of the reflector that is remote from the ellipsoidal reflector in a spot position of the stepped lens.

99. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 97, wherein the ellipsoidal reflector comprises a metallic or transparent dielectric glass and/or plastic.

100. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 97, further comprising an auxiliary reflector arranged between the stepped lens and the ellipsoidal reflector.

101. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 68, wherein the diffusing screen has a first surface that is subdivided into facets, each facet being assigned an elevation or depression with a second surface formed in curved fashion, wherein the facets assume different geometrical shapes.

102. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 101, wherein the facets have a polygonal edge contour.

103. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 101, wherein the facets contain different areas.

104. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 101, wherein the facets assume a shape selected from the group consisting of a triangle, quadrangle, pentagon, hexagon, heptagon, and any combinations thereof.

105. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 101, wherein the facets have different orientations.

106. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 101, wherein the elevations or depressions are formed in the shape of spherical caps.

107. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 101, wherein the height of the elevations and/or the depth of the depressions are different.

108. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 101, wherein the respective vertices of the elevations or depressions are arranged along a spiral.

109. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 108, wherein the vertices are arranged on an Archimedes' spiral.

110. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 108, wherein the arc length between two adjacent vertices along the spiral is almost equidistant.

111. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 108, wherein the wherein the arc length between two adjacent vertices along the spiral are variable.

112. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 101, wherein the facets that are rotated relative to one another.

113. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 101, wherein the facets are offset from their regular position by means of a Monte Carlo method.

114. (Currently amended) The ~~optical arrangement~~ stepped lens spotlight as claimed in claim 101, wherein the diffusing screen has a defined granularity that becomes finer in a central region and coarser with increasing distance from the center.